

# Application of Dynamic Random Network Structure in the Modeling of the Combination of Core Values and Network Education in the Propagation Algorithm

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**Abstract:**The topological structure of the network relationship is described by the network diagram, and the formation and evolution process of the network is analyzed by using the cost-benefit method. Assuming that the self-interested network member nodes can connect or break the connection, the network topology model is established based on the dynamic random pairing evolution network model. The static structure of the network is studied. Respecting the psychological cognition law of college students and innovating the core value cultivation model can reverse the youth's identification dilemma with the core values, and then create a good political environment for the normal, healthy, civilized and orderly network participation of the youth. In recognition of the atmosphere, an automatic learning algorithm of Bayesian network structure that effectively integrates expert knowledge and data-driven methods is realized.

**Keywords:** Dynamic Random Network Structure, Core Values, Network Education, Propagation Algorithm

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## 1. INTRODUCTION

As the spiritual support of Chinese society, the socialist core values are not only the value standard for Chinese society to judge the right and wrong [1], but also an important guarantee for the long-term stability of the country. In order to investigate the cognitive and identity status of college students' core values, in August 2015 [2], the researchers conducted an open dialogue in questionnaire design, established a security system, and organized ideological and political education [3]. It focuses on clarifying and processing network information, taking the initiative to resist negative network information, and making beneficial contributions to maintaining the security and stability of colleges and universities [4].

A great deal of research on networks has occurred in social sciences, economics, physics, mathematics, and computer science, and these disciplines take different approaches and ask different questions [5]. As a result, network research presents an interdisciplinary and multidisciplinary approach. Features [6]. In the most efficient spectrum utilization mode, the reuse rate of the spectrum is increased to provide as many available channels as possible for the mobile communication equipment in each cell. The channel assignment problem is an NP-complete problem in combinatorial optimization [7]. The establishment of a Bayesian network usually requires two steps of structure learning and parameter learning [8]. Among them, the structure learning is difficult and has become a key problem restricting the establishment of Bayesian networks. Values The cohesion determines the direction and level of a country's cultural development [9]. The Communist Party of China has always attached great importance to the construction of socialist core values [10].

At present, our country is in a period of social change and economic transformation, traditional ideas and modern ideas are intertwined [11], eastern and Western cultures are constantly exchanged and collided, and social thoughts are in a complicated state [12]. We urgently need the mainstream ideology of socialism to guide pluralistic thinking. With the

deepening reform and gradual opening of my country's financial market [13], my country's banking market will face a more complex financial market environment. A large number of banks and assets in the financial market will form a complex network relationship through direct or indirect effects [14]. The risk of the whole market may cause a crisis in the entire market, which requires my country to have a higher systemic risk supervision capability. Therefore, the formation of banking systemic risk based on network theory. In the early 1990s [15], the reform bill announced by the Federal Deposit Insurance Corporation of the United States aroused the thinking of systemic risk in the international academic community. Systemic risk is not systematic risk in the traditional sense [16].

Systematic risk, also known as market risk, mainly refers to the impact on the entire financial market or the real economy caused by macro factors such as political, economic and social environments [17]. This risk cannot be dispersed through investment diversification. A study of the definition and characteristics of new media. More than 40 years ago, P. Goldmark, director of the CBS Network Technology Institute, called "electronic video" "new media" [18], and the concept of new media was born. Subsequently, E. Rostow, chairman of the Presidential Select Committee on American Communication Policy [19], mentioned the concept of new media many times in the report submitted to President Nixon. The theory and application of particle swarm optimization algorithm and fuzzy clustering algorithm have been deeply studied due to their simple structure and easy implementation. Good control effect is the focus of this study [20].

In this section, the research status of the two types of model-related problems will be introduced in detail. Directly affected by the status [21] of political identity, the youth identity dilemma of core values will inevitably have a negative impact on the main path of college students' political participation—online political participation [22]. The report of the 18th National Congress of the Communist Party of China raised the issue of cultivating and practicing socialist core values

from three levels: state [23], society and individual. The whole society is generally mobilized, actively implemented, and strives to practice the core socialist values. While improving the height of self-spirit, it also forms a good social atmosphere [24]. What kind of network is likely to appear in society is very important for people to make specific decisions. Crucially, networks of relationships play a central role in a variety of social, economic, and political interactions; social network analysis is an important and well-developed field in sociology; network analysis in economics is largely in the past in 10-15 years, formal modeling of networks has now reached maturity in various fields.

## 2. THE PROPOSED METHODOLOGY

### 2.1 The Dynamic Random Network Structure

At present, there are a variety of algorithms for studying channel assignment. Some authors use heuristic algorithms to solve fixed channel assignment (FCA) and DCA neural network technology, and the idea of simulated annealing has been applied in this regard, but neural network technology is easy to fall into local optimum. Solution. The main methods of Bayesian network structure learning are two categories: data-driven methods and expert knowledge-based methods.

The learning efficiency of data-driven methods is low, and the modeling process is restricted by the defects of data samples and algorithms, so it is difficult to guarantee the accuracy. In the context of the new media era, various for-profit online publicity platforms are "hundred flowers blooming", which to a certain extent promotes the dissemination of socialist core values. Compared with the "one-to-many" interactive mode of government affairs network platforms, the "point-to-point" interactive mode of for-profit websites shows stronger participation and interaction. Although a large number of research results show that excessive investment diversification is more likely to cause banking systemic risks, it is still not clear how much investment diversification can be more conducive to the stability of the banking system. Based on the investment diversification model in the simple financial market constructed in this chapter. No matter how each node is labeled, as long as the label of each node is unique, the definite node can be found by the label.

### 2.2 The Core Values and Network Education

The interactive function of new media not only lays a solid foundation for the socialist core value of "equal dissemination". Clustering is a basic method of multivariate data analysis, which includes statistical methods such as mean value in the existing data clustering methods algorithm, fuzzy mean algorithm.

Optimization methods, such as probabilistic clustering, heuristic methods, such as tree search methods; competitive learning methods, such as self-organizing inference theory, self-organizing mapping (methods); graph theory, such as spectral clustering methods. Highly prone to cyber violence, moral judgment Such irrational political participation behaviors. Contemporary college students' identification dilemma with socialist core values has intensified the utilitarian, irrational and political indifference of college students' online political participation to a certain extent, which is not conducive to the healthy development of democratic politics. Practicing the core socialist values, strengthening network supervision and correctly guiding public opinion on the network platform with fast

dissemination speed, large influence range and wide coverage area is of great significance for realizing a clear network space and maintaining network civilization. Therefore, it is necessary to use random and stable Bala and Goyal (2005) also examine network formation in dynamic contexts; however, their approach differs significantly from AlisonWatts's both in terms of modelling and findings. Bala and Goyal (2005) And Goyal is not too concerned about the non-cooperative game can be unilateral. As a result, the number of cells violating EMC may be small, while the number of channels violating EMC within the cell may be very large.

This study proposes a dynamic channel allocation model based on minimizing the number of cells and the number of channels that violate EMC between cells. The model comprehensively considers the two violations. The multi-signal flow graph model uses a directed graph to describe the fault propagation dependencies, which can be used for Realize complex system diagnostic modeling, algorithm design and other functions, which have been widely used in aerospace. Compared with private websites whose main purpose is profit, official websites do not need to overly consider the profit problem in the process of information dissemination. They are more It is to consider how to highlight its policy-oriented role, which is an important reason for the seriousness of information dissemination on official websites.

### 2.3 The Modeling of the Combination of Core Values and Online Education Communication Algorithm

Testability design, maintenance management and other fields of high-tech systems such as industrial control and medical equipment. Further study the relationship between investment diversification and banking systemic risk. According to the analysis of the research status of the inter-bank lending market, the degree of connectivity of the inter-bank lending network will have different effects on risk contagion, and the topology of the lending network will also have different effects on risk contagion. The original meaning of fragmentation is to turn a complete thing into small pieces, and the use of this word in my country is more often found in communication research.

At present, there are many related literatures on the combination of particle swarm algorithm and neural network, but they are more focused on practical applications, and have not been deeply analyzed in theory. This section discusses the stability of the combined model, gives the setting range of parameter initialization, and provides theoretical support. Some update cycles can only be calculated in terms of "months" or "years", and most updates are based on forwarding. This kind of dissemination content cannot track the hotspots of current affairs, nor can it attract a wide audience, lose the propaganda effect, and eventually become a "dead network", which is the inevitable result. Interbank lending is mainly carried out by banks due to temporary capital shortage Interbank borrowing funds usually have a short transaction period and therefore cannot be used for long-term investment, but can be used as an important source of bank liquidity.

## 3. CONCLUSIONS

Based on the dynamic random pairing evolution network model, the topology structure model of the network is established. The static structure, dynamic evolution, stability and validity of the network and their relationship are studied.

Colleges and universities should be good at applying the connotation and essence of socialist core values to dealing with the crisis of network public opinion. Choose the best public relations plan to control the overall direction, use the power of network assistants to positively guide the online public opinion of colleges and universities, and clarify the situation by transmitting and communicating information.

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